



Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

Date: May 23, 1989

Time 10:08

Number of Pages to Follow: 3

TO: Oliver Gushee

PRUITT, GUSHEE & FLETCHER

Suite 1850 Beneficial Life Tower SLC UT 84111

Phone: 531-8468

FROM: DIVISION OF OIL, GAS AND MINING

Minerals Reclamation and Development Program

Phone: (801) 538-5340

SUBJECT: RECLAMATION ESTIMATE FOR CRYSTAL PEAK MINERALS CORP.

REMARKS: \_\_\_\_\_

MN9/60

an equal opportunity employer

0003

**Reclamation Estimate for Crystal Peak Minerals Corporation**  
**Sevier Dry Lake Project M/027/008** **Page 1 of 2**

**Prepared By**  
**Utah State Division of Oil, Gas and Mining**  
**May 18, 1989**

Description	Quantity	Unit	\$/Unit	Total Cost (\$)
<b>Pond System Reclamation (a)</b>				
Pumping into Ponds to Breach Dikes		Lump Sum		17,500
Labor and Vehicles		Lump Sum		20,000
Subtotal				37,500
<b>1987 and 1988 Construction Reclamation (b)</b>				
Borrow Area - Revegetate		Lump Sum		6,800
Plug Water Well		Lump Sum		2,500
Campsite		Lump Sum		3,500
Subtotal				12,800
Total Reclamation Cost for pre-1989 Disturbances (1988 dollars) (c)				50,300
(1989 dollars)				51,500
<b>Salt Wash Plant and Facilities Reclamation</b>				
Remove Conveyors and Structures	1,200	Feet	3.50	4,200
Remove Hoppers, Screens, Pumps, Etc.		Lump Sum		3,000
Remove Trash	22.6	Acres	100	2,260
Leach Salt Pad Through Existing Drains	6	Weeks	1000	6,000
Grade for Uniformity	22.6	Acres	323	7,300
Replace Topsoil	18,230	Cubic Yards	0.80	14,580
Revegetate	22.6	Acres	318	7,190
Subtotal				44,530
<b>Process Water Line Reclamation</b>				
Revegetate	1.5	Acres	318	480
Total 1989 Proposed Disturbance				45,010
Totals (Disturbances through 1989)				96,510
Add Contingency (10%)				9,650
TOTAL RECLAMATION COST (1989 Dollars)				106,160
TOTAL RECLAMATION COST (1994 Dollars) @ 1.93% Annual Inflation				117,000
Less Amount Currently Held By Bureau of Land Management				53,000
Less Amount Currently Held By State Lands and Forestry				5,000
AMOUNT REQUIRED BY THE DIVISION OF OIL, GAS AND MINING				59,000

**Reclamation Estimate for Crystal Peak Minerals Corporation**  
**Sevier Dry Lake Project M/027/008**

**Page 2 of 2**

**Prepared By**  
**Utah State Division of Oil, Gas and Mining**  
**May 18, 1989**

- (a) This amount includes the reclamation of constructed and proposed dikes and ditches in the solar pond complex. When all facilities are constructed, these figures will be reviewed.
- (b) The borrow area has been regraded. Also, one of the water wells has been reclaimed.
- (c) The amount of surety required for this work (\$53,000) was accepted by the Board of Oil, Gas and Mining on March 31, 1988. The BLM holds a corporate surety bond for this amount.

**Cost Parameters Used**

---

988B Wheel Loader (O&O)	165	\$/hour
769C Off-Highway Truck (O&O)	100	Cubic Yards/hour
D-8 Dozer (O&O)	160	\$/hour
Labor Only	24	\$/hour
Trash Removal	100	\$/acre
Farm Tractor (O&O)	67	\$/hour
Speed	4	mph
Width of Pass	6	feet

Revegetation Cost per Acre	Quantity	Unit	\$/Unit	Total Cost (\$)
<hr/>				
Bare Costs				
Seed Mix	24.9	Pounds	9.92	247
Application Costs				
Seed Mix (using drill seeder)	0.5	Hours	95	48
Scarify (tractor with chain)	0.3	Hours	67	23
Subtotal				<hr/> 71
Total Revegetation Cost per Acre				318

\*\*\*\*\*

\*\* TRANSMIT CONFIRMATION REPORT \*\*

Journal No. : 002  
Receiver : 9310294  
Transmitter : DIV OIL GAS & MINING  
Date : May 23,89 10:31  
Document : 04 pages  
Time : 02'23"  
Mode : G3 NORMAL  
Result : OK

DOGM  
MINERALS PROGRAM  
FILE COPY

\*\*\*\*\*